

INSULATING CERAMIC COMPACT, CERAMIC MULTILAYER
SUBSTRATE, AND CERAMIC ELECTRONIC DEVICE

ABSTRACT OF THE DISCLOSURE

An insulating ceramic compact is provided which can be obtained by low-temperature firing, has a low relative dielectric constant and superior high frequency characteristics, and can be co-sintered with a material having a high coefficient of thermal expansion. The insulating ceramic compact is a fired mixture of an MgAl_2O_4 -based ceramic and a borosilicate glass, in which an MgAl_2O_4 crystal phase and at least one of an $\text{Mg}_3\text{B}_2\text{O}_6$ crystal phase and an $\text{Mg}_2\text{B}_2\text{O}_5$ crystal phase are precipitated as primary crystal phases.